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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/659,449	09/10/2003	Purva R. Rajkotia	SAMS01-00270	4890

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EXAMINER	
MEHRPOUR, NAGHMEH	
ART UNIT	**PAPER NUMBER**
2617	

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	04/20/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No.	Applicant(s)	
	10/659,449	RAJKOTIA ET AL.	
	Examiner	Art Unit	
	Naghmeh Mehrpour	2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *16 October 2006*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-30* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-30* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. **Claims 1-30,** are rejected under 35 U.S.C. 103(a) as being unpatentable over Bae et al. (US Publication 2003/0193964 A1) in view of Lee et al.(US Publication 2005/0032551 A1).

Regarding claims 1, 13, 25, Bae teaches use in a wireless communication system/apparatus comprising a plurality of base stations, each of which is capable of communicating with a plurality of mobile stations within a base station coverage area, an apparatus for setting up a call from a mobile station, wherein the apparatus comprises:

a base station that sets up said call from said mobile station by receiving an origination message from said mobile station (0046);

Bae teaches a MS transmits a Page Response Message to the BS in response to the Page Message. The Page Response Message contains a service option number indicating a service to be activated when the service is in the dormant state. The Page Message is intended here for the same use as initial service connection. The BS assigns forward and reverse traffic channels.

The BS then transmits to the MS a Traffic Channel Assignment Message containing traffic Channel assignment information and null data Upon receipt of the Traffic Channel Assignment Message, the MS establishes the forward and reverse traffic Channel checks reception of the forward traffic (i.e., null data), and transmits a preamble on the reverse traffic channel to the BS. The BS transmits a BS Acknowledgement Order to the MS. Thus, the forward and reverse traffic channels are completely established and the BS and the MS transition to an active state 20 (0034-0035).

Bae fails to teach method wherein said base station sends null frames on a forward traffic channel to said mobile station to verify that said forward traffic channel is reliable instead of sending a base station acknowledgment order to said mobile station to verify that said forward traffic channel is reliable.

wherein said base station receives a traffic channel preamble from said mobile station on a reverse traffic channel to said base station to verify that said reverse traffic channel is reliable instead of receiving a mobile station acknowledgement order from said mobile station to verify that said reverse traffic channel is reliable.

However, Lee teaches wherein said base station sends null frames on a forward traffic channel to said mobile station to verify that said forward traffic channel is reliable instead of sending a base station acknowledgment order to said mobile station to verify that said forward traffic channel is reliable.

wherein said base station receives a traffic channel preamble from said mobile station on a reverse traffic channel to said base station to verify that said reverse traffic channel is reliable instead of receiving a mobile station acknowledgement order from said mobile station to verify

that said reverse traffic channel is reliable (0074, 0081, 0087, 0089, 0098).Therefore, it would have been obvious to ordinary skill in the art at the time the invention was made to combine the above teaching of Lee with Bae, in order to provide a method that each device in the network can continually monitor the quality of the media.

Bae further teaches Upon receipt of the traffic channel Assignment Message, the MS establishes the forward and reverse traffic channel checks reception of the forward traffic (i.e., null data), and transmits a preamble on the reverse traffic channel to the BS in step 105. In step 106, the BS transmits a BS Acknowledgement Order to the MS. Thus, the forward and reverse traffic channels are completely established and the BS and the MS transition to an active state 20.

Regarding claims 2, 14, 26, Bae teaches a system/apparatus wherein: said base station sends to said mobile station a specified number of traffic channel preambles for said mobile station to send to said base station before said mobile station goes to a traffic channel (0034,0035, 0046).

Regarding claims 3, 15, Bae teaches an apparatus/system wherein said base station sends said specified number of traffic channel preambles to said mobile station in one of a channel assignment message and an extended channel assignment message (0034, 0035, 0046).

Regarding claims 4, 16, 27, Bae teaches an apparatus/system wherein said base station sends a mode of operation indicator to said mobile station to cause said mobile

station to send a specified number of traffic channel preambles to said mobile station before said mobile station goes to a traffic channel, wherein said base station sends said mode of operation indicator to said mobile station in one of a channel assignment message and an extended channel assignment message (0034, 0035, 0046).

Regarding claims 5, 17, 28, Bae teaches an apparatus/system wherein:

said base station sends to said mobile station a specified number of traffic channel preambles for said mobile station to send to said base station before said mobile station goes to a traffic channel (0034-0035); and

said base station sends a base station acknowledgement order to said mobile station before said mobile station has sent the specified number of traffic channel preambles to said base station (0034-0035, 0045).

Regarding claims 6, 18, Bae teaches an apparatus/system wherein said base station sends said specified number of traffic channel preambles to said mobile station in one of a channel assignment message and an extended channel assignment message (0034-0035, 0046).

Regarding claims 7, 19, Bae teaches an apparatus/system wherein:

said base station sends a mode of operation indicator to said mobile station to cause said mobile station;

1) to send a specified number of traffic channel preambles to said mobile station before said mobile station goes to a traffic channel (page 2 section 0020), and

2) to enter a traffic channel when said mobile station receives a base station acknowledgement order from said base station before said mobile station has sent the specified number of traffic channel preambles to said base station (0034-0035,0046); and

wherein said base station sends said mode of operation indicator to said mobile station in one of a channel assignment message and an extended channel assignment message (0034-0035, 0046).

Regarding claims 8, 20, Bae teaches an apparatus/system wherein said base station sends a traffic channel preamble to said mobile station on a forward traffic channel after said base station has sent one of a channel assignment message and an extended channel assignment message to said mobile station, wherein said traffic channel preamble verifies that said forward traffic channel is reliable (0034-0035, 0046); and

said base station receives null frames/ACK from said mobile station on a reverse traffic channel after said base station has sent said traffic channel preamble to said mobile station, wherein said null frames/ACK verify that said reverse traffic channel is reliable (0034-0035, 0045). As mention in claim 1, Lee teaches Null frame or Ack frame verify the transmission (see claim 1).

Regarding claims 9, 20, 29, Bae teaches an apparatus/system as set forth in claim 1 wherein: said base station sets up a call to terminate on said mobile station by sending null frames/ACK

frame on a forward traffic channel to said mobile station to verify that said forward traffic channel is reliable instead of sending a base station acknowledgment order to said mobile station to verify that said forward traffic channel is reliable (0034-0035, 0044). As mention in claim 1, Lee teaches Null frame or Ack frame verify the transmission (see claim 1).

Regarding claims 10, 22, 30, Bae fails teaches an apparatus/system as set forth in claim 9 wherein said base station sets up a call to terminate on said mobile station by receiving a traffic channel preamble from said mobile station on a reverse traffic channel to said base station to verify that said reverse traffic channel is reliable instead of receiving a mobile station acknowledgement order from said mobile station to verify that said reverse traffic channel is reliable. (see claim 1) .

Regarding claims 11, 23, Bae modified by Lee fails to teach a apparatus/system wherein said base station sets up said call from said mobile station in approximately two hundred milliseconds. However, the examiner takes official notice that a apparatus/system wherein said base station sets up said call from said mobile station in approximately two hundred milliseconds in well known in the art. Therefore, it would have been obvious to ordinary skill in the art at the time the invention was made to combine the above teaching Lee with Bae, in order to reduce the call setup time.

Regarding claims 12, 24, Bae modified by Lee fails to teach an apparatus/system wherein said base station sets up said call to terminate on said mobile station in

approximately three hundred milliseconds. However, the examiner takes official an apparatus/system wherein said base station sets up said call to terminate on said mobile station in approximately three hundred milliseconds is well known in the art. Therefore, it would have been obvious to ordinary skill in the art at the time the invention was made to combine the above teaching Bae with Lee, in order to reduce the call setup time.

Response to Arguments

3. Applicant's arguments with respect to claims 1-30 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

4. **Any responses to this action should be mailed to:**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Naghmeh Mehrpour whose telephone number is 571-272-7913. The examiner can normally be reached on 8:00- 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nick Corsaro be reached (571) 272-7876.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

NM

April 13, 2007

NAGHMEH MEHRPOUR
PRIMARY EXAMINER